WEIGHING RECORD - TANDEM TWO SEATERS

Glider Type: BGA CofA No: Serial No:

LEADING PARTICULARS EXTRACT

Datum Point :
Levelling Means :

Fwd CofG Limit (Xfl) : mm aft. Max All Up Weight (Dry) (Wd) : Kg
Aft CofG Limit (Xal) : mm aft. Max All Up Weight (Wet) (Ww) : Kg
Front Pilot CofG (Xpl) : mm fwd. Max Weight Non-Lift Parts (Wn) : Kg
Rear Pilot CofG (Xp2) : mm fwd. Max Baggage Weight (Wb) : Kg
Baggage CofG (Xb) : mm aft.

EMPTY WEIGHT AND C OF G POSITION

Weight on Front Support (Wf) = kg
Weight on Rear Support (Wr) = kg
Weight of Port Wing (Wp) = kg
Weight of Starboard Wing (Ws) = kg

Empty Glider Weight (We) = Wf + Wr = kg
Weight Non-Lifting Parts (Wnl) = We - Wp - Ws = kg

Displacement of Front Support (Xfs) = mm fwd (-ve if aft of datum)
Displacement of Rear Support (Xrs) = mm aft

Empty Glider CofG Displacement (Xe) = $\frac{(Wf \times Xfs) - (Wr \times Xrs)}{We}$

=

= mm aft

MINIMUM AND MAXIMUM COCKPIT LOADS

Minimum Front Cockpit Load

CofG Based: $\frac{We(Xe - Xa1)}{(Xp1 + Xa1)} + \frac{Wb(Xb - Xa1)}{(Xp1 + Xa1)} - \frac{Pr(Xp2 + Xa1)}{(Xp1 + Xa1)}$

= kg (lb)

a. With rear cockpit empty = kg

b. With max rear cockpit load of ……. kg = kg

The placard figure is the GREATEST value of a. or b.

Maximum Front Cockpit Load (Dry)

a. CofG Based: $\frac{We(Xe - Xf1)}{(Xp1 + Xf1)} + \frac{Wb(Xb - Xf1)}{(Xp1 + Xf1)} - \frac{Pr(Xp2 + Xf1)}{(Xp1 + Xf1)}$

= kg

b. Max AUW Based: Wd - We - Wb - Pr

= kg

c. Max Non-Lift Based: Wn - Whl - Wb - Pr

= kg

d. Flight Manual Limitation: Front Cockpit = kg

Rear Cockpit = kg

The Max (Dry) Front Cockpit Weight is the LEAST value of a. to d.

= kg

Maximum Total Loading - Wet

Total weight of pilot(s) plus water must not exceed:

Ww - We – Wb = kg

Loading Table

Rear Cockpit kg (lb)	**Front Cockpit Max (Dry) kg (lb)**	**Max Total Load (Wet) kg (lb)**
60 (132)		
70 (154)		
80 (176)		
90 (198)		
100 (220)		
110 (242)		

Pilot(s) plus water not to exceed

…… kg

NOTES:

Date: Name: Signature: BGA Insp Auth: